# PATENT COOPERATION TREATY PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 502950	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/AU2004/001762	International filing date (day/mont) 16 December 2004	(Earliest) Priority Date (day/month/year) 16 December 2003
Applicant COMMONWEALTH SCIE	ENTIFIC AND INDUSTRIAL RI	ESEARCH ORGANISATION et al
This international search report has been Article 18. A copy is being transmitted to		Authority and is transmitted to the applicant according to
This international search report consists o	f a total of 5 sheets.	this report.
1. Basis of the report		
With regard to the language, the it was filed, unless otherwise indicates.	nternational search was carried out on the acted under this item.	e basis of the international application in the language in which
Authority (Rule 23	.1(b)).	anslation of the international application furnished to this
b. With regard to any nucleotic	le and/or amino acid sequence disclose	d in the international application, see Box No. I.
2. Certain claims were found	unsearchable (See Box No. II).	
3. Unity of invention is lacking	g (See Box No. III).	•
4. With regard to the title,		
the text is approved as submi	tted by the applicant.	
X the text has been established	by this Authority to read as follows:	
Cytokine binding domains	•	
5. With regard to the abstract,		·
X the text is approved as submit	tted by the applicant.	
the text has been established, one month from the date of m	according to Rule 38.2(b), by this Autho ailing of this international search report,	ority as it appears in Box No. IV. The applicant may, within submit comments to this Authority.
6. With regard to the drawings,		
a the figure of the drawings to be pub	olished with the abstract is Figure No.	
as suggested by the a	pplicant.	
as selected by this A	uthority, because the applicant failed to s	suggest a figure.
as selected by this Au	uthority, because this figure better charac	cterizes the invention.
b. X none of the figures is to be pub	olished with the abstract.	

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### INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2004/001762

Box No	p. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This in reasons	ternational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos.:
_	because they relate to subject matter not required to be searched by this Authority, namely:
2. 3	Claims Nos.: 69-88
	because they relate to parts of the international application that do not comply with the prescribed requirements to sucl an extent that no meaningful international search can be carried out, specifically:
	An essential technical feature of the invention appears to be the two FnIII-like domains with mutations in them. The claims, however, are not limited to this feature of the invention, they simply define any cytokine domain irrespective of whether there are two FnIII-like domains.
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No.	III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
1 ms mic	rnational Searching Authority found multiple inventions in this international application, as follows:
ı. [	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
s	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
. 🔲	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
emark o	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2004/001762

			PC1/AU2004/001762
A.	CLASSIFICATION OF SUBJECT MATTER		
Int. CL 7:	C07K 14/715, C12N 15/12		
According to	International Patent Classification (IPC) or to be	oth national classification and IPC	
B.	FIELDS SEARCHED		
Minimum doca	imentation searched (classification system followed by	y classification symbols)	·
Documentation	searched other than minimum documentation to the	extent that such documents are included	in the fields count of
WPIDS, ME	base consulted during the international search (name DLINE, CAPLUS ( cytokine, binding, domains)	of data base and, where practicable, sea ain, receptor, fibronectin, interle	rch terms used) ukin, modif, mutat, variant)
	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
x	WO 2002/032925 A2 (PHYLOS, INC.) 25 (Whole document)	April 2002	1, 2, 4-10, 16, 19, 20, 24-26, 29-33, 35-41, 50-52, 55-57, 60-67, and 69-
x	Chuntharapai. A., et al: "Determination of signal transmission in human IFN-α Recept Vol 163: 766-773 (Whole document)	residues involved in ligand bindi tor 2." The Journal of Immunolo	ng and gy (1999); 1, 2, 4-6, 11, 12, 19, 20, 31-33, 35- 37, 42, 43, 50, 51 and 64-66.
······································	ther documents are listed in the continuation	n of Box C X See pater	t family annex
A" document of not conside	ication or patent but published on or after the "X" do	nter document published after the internations of the publication but cited to under inderlying the invention ocument of particular relevance; the claimed cannot be considered to involve an inventive	stand the principle or theory
or which is another cita document re or other mes	thich may throw doubts on priority claim(s) "Y" docited to establish the publication date of in tion or other special reason (as specified) sufferring to an oral disclosure, use, exhibition uss "&" do	one  cument of particular relevance; the claimed  volve an inventive step when the document i  ch documents, such combination being obvi  cument member of the same patent family	s combined with one or more other
but later than	ublished prior to the international filing date n the priority date claimed		
te of the actual of January 200:	completion of the international search	Date of mailing of the international se	arch report 4 FEB 2005
	address of the ISA/AU	Authorized officer	7 1 ED 2003
STRALIAN PA BOX 200, WO	TENT OFFICE DEN ACT 2606, AUSTRALIA @ipaustralia.gov.au	Philippa Wyrdeman Telephone No : (02) 6283 2554	

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001762

C (Continuat	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<b>X</b>	Gustin. S. E., et al; "Expression, crystallization and derivation of the complete extracellular domain of the $\beta_c$ subunit of human IL-5, IL-3 and GM-CSF receptors." European Journal of Biochemistry (2001); Vol 268: 2905-2911 (Whole document)	1, 2, 4, 31- 33, 35, 62 and 64-66.
X	Chill. J. H., et al; "The human type I interferon receptor: NMR structure reveals the molecular basis of ligand binding." Structure (July 2003), Vol 11: 791-802	1, 2, 5, 6, 11, 12, 19, 20, 31, 33, 36, 37, 42, 43, 50 and 51

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## INTER( )IONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU2004/001762

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

stent Docume Search Ro				Pate	ent Family Member		
02329	25	AU	13251/02	CA	2418835	EP	1356075